



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### CONNECTICUT, Northeast

CTZ002

Hartford

05 0600EST  
1500EST

0 0

Record Heat

Bermuda high pressure brought a southwest flow of hot and humid air to Connecticut during the July 4th holiday weekend. The high temperature of 99 degrees on July 5th at Bradley International Airport in Windsor Locks broke the previous record high for the date of 98 degrees, which was set in 1955. The low temperature of 77 degrees set a new record high minimum temperature for the date. The previous record was 74 degrees which was set in 1919.

CTZ002

Hartford

06 0600EST  
1800EST

0 0

Record Heat

For the second day in a row, record high temperatures were set at Bradley International Airport in Windsor Locks. The high of 99 degrees broke the previous record high temperature of 98 degrees, which was set in 1911.

Tolland County

Hebron

06 2150EST

0 0

Thunderstorm Wind (G50)

Thunderstorms moved across northern Connecticut in advance of a strong cold front. For the fourth day in a row, temperatures soared well up into the 90s along with high humidity. Although most of the severe weather moved across adjacent parts of Massachusetts, one severe thunderstorm in Hebron downed power lines and large tree limbs.

CTZ002

Hartford

17 1426EST

0 0

Record Warmth

The high temperature of 97 degrees at Bradley International Airport in Windsor Locks broke the previous record high for the date of 96 degrees, which was set in 1982 and earlier years.

Hartford County

Simsbury to  
Bloomfield

18 1605EST  
1610EST

0 0

Thunderstorm Wind (G55)

Tolland County

Columbia

18 1710EST

0 0

Thunderstorm Wind (G55)

Windham County

Willimantic

18 1715EST

0 0

Thunderstorm Wind (G55)

Hartford County

Marlborough

18 1805EST

0 0

Thunderstorm Wind (G50)

Tolland County

Hebron

18 1805EST

0 0

Thunderstorm Wind (G50)

Severe thunderstorms moved across northern Connecticut ahead of a cold front. The storms developed over the Farmington Valley, knocking down trees in Simsbury and Bloomfield, before racing southeast across Tolland and Windham Counties. Hebron, in southern Tolland County, received the brunt of the storms, where several trees were downed and some houses were struck by lightning. A portion of Route 85 was closed for more than 6 hours after a tree fell, taking down power lines and blocking the road. Just over 21,000 customers throughout the state lost power due to the storms.

Tolland County

Coventry

19 1235EST

0 0

Thunderstorm Wind (G55)

Windham County

Ashford to  
Windham

19 1250EST  
1253EST

0 0

Thunderstorm Wind (G55)

Tolland County

Storrs to  
Stafford

19 1255EST  
1300EST

0 0

Thunderstorm Wind (G50)



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### CONNECTICUT, Northeast

Windham County									
Canterbury	19	1314EST			0	0			Thunderstorm Wind (G50)
Windham County									
Plainfield	19	1335EST			0	0			Lightning
Hartford County									
Granby to Windsor Locks	19	1539EST 1545EST			0	0			Thunderstorm Wind (G52)
Windham County									
Woodstock	19	1630EST			0	0			Thunderstorm Wind (G50)

Severe thunderstorms moved through northern Connecticut for the second day in a row, producing wind gusts over 60 mph. Some of the hardest hit areas had just begun to recover from the previous day's storms, including Coventry where there were many trees and power lines downed from thunderstorm winds. Bradley International Airport, in Windsor Locks, reported a wind gust to 60 mph as the storms moved through. Just over 1,000 customers in Hartford, Tolland, and Windham Counties were without power at the height of the storms. Lightning struck a house in Plainfield, causing some damage.

Windham County									
Moosup to Sterling	23	1835EST 1840EST			0	0			Thunderstorm Wind (G55)

An isolated severe thunderstorm in Windham County downed trees and power lines, and snapped utility poles, cutting power to about 2,000 customers. The Moosup section of Plainfield was hardest hit. In nearby Sterling, thunderstorm winds toppled a tree into the roof of the post office.

Windham County									
Eastford	24	1402EST			0	0			Hail(0.75)
Hartford County									
New Britain to Manchester	24	1520EST 1543EST			0	0			Hail(1.50)
Hartford County									
New Britain to Manchester	24	1520EST 1549EST			0	0			Thunderstorm Wind (G55)
Tolland County									
Bolton to West Willington	24	1555EST 1613EST			0	0			Hail(1.75)
Tolland County									
Andover to Coventry	24	1607EST			0	0			Thunderstorm Wind (G55)
Windham County									
Pomfret	24	1644EST			0	0			Hail(1.00)

Severe thunderstorms ahead of a cold front brought damaging winds and large hail to northern Connecticut. Hartford and Tolland Counties experienced the most damage, with many reports of downed trees, large tree limbs, and power lines, as well as hail as large as golf balls. Newington, in Hartford County, was especially hard hit. Just over 10,000 customers lost power during the height of the storms. A large tree fell onto the roof of a parked van, light poles were damaged, and the steeple of a church was knocked down. Many streets were temporarily impassable due to fallen branches and trees.

### MASSACHUSETTS, Central and East

Plymouth County									
Middleboro	02	1340EST			0	0			Thunderstorm Wind (G50)

An isolated severe thunderstorm downed large limbs in Middleboro.



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### MASSACHUSETTS, Central and East

#### Suffolk County

Winthrop	04	0740EST			0	0			Thunderstorm Wind (G50)
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#### Bristol County

Fall River	04	0830EST			0	0			Lightning
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An isolated severe thunderstorm downed several trees in Winthrop. Other thunderstorms with frequent lightning moving across southeast Massachusetts started a building fire in Fall River.

#### MAZ015

#### Suffolk

05		0000EST 1800EST			2	0			Record Heat
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Bermuda high pressure brought a southwest flow of hot and humid air to Massachusetts during the holiday weekend. The temperature only fell to a low of 81 degrees at Logan International Airport in Boston on July 5th, which was a record minimum high temperature for the date. The previous record was 79 degrees which was set in 1919. Although the high temperature of 98 degrees on the 5th did not break a record in Boston, the spell of heat and high humidity resulted in two deaths and record electricity usage in Boston. An 86-year old woman died from heat exhaustion after being rushed to the hospital from a private nursing home, and a 64-year old woman, also a resident of a Boston nursing home, died of similar causes later that day. F86PH, F64PH

#### Franklin County

Shelburne to Northfield	06	1520EST 1545EST			0	0			Thunderstorm Wind (G60)
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#### Hampshire County

Plainfield to Hatfield	06	1522EST 1552EST			1	2			Thunderstorm Wind (G60)
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M29VE

#### Worcester County

Athol	06	1540EST			0	0			Thunderstorm Wind (G60)
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#### Worcester County

Templeton to Harvard	06	1555EST 1618EST			0	0			Thunderstorm Wind (G60)
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#### Middlesex County

Pepperell to Tyngsboro	06	1610EST 1615EST			0	0			Thunderstorm Wind (G56)
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#### Middlesex County

Boxborough to Wakefield	06	1630EST 1702EST			0	0			Thunderstorm Wind (G65)
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#### Middlesex County

Wilmington	06	1635EST			0	0			Hail(0.88)
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#### Essex County

Beverly	06	1645EST			0	0			Thunderstorm Wind (G52)
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#### Norfolk County

East Walpole to Avon	06	1715EST 1717EST			0	0			Hail(0.75)
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#### Norfolk County

Walpole	06	1717EST			0	0			Thunderstorm Wind (G50)
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#### Plymouth County

Brockton	06	1723EST 1835EST			0	0			Hail(2.75)
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#### Plymouth County

Whitman to Middleboro	06	1745EST 1830EST			0	0			Thunderstorm Wind (G60)
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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### MASSACHUSETTS, Central and East

<b>Norfolk County</b>									
Avon	06	1755EST			0	0			Hail(0.75)
<b>Plymouth County</b>									
Cedarville	06	1900EST			0	0			Hail(0.75)
<b>Barnstable County</b>									
Sandwich	06	1910EST			0	0			Thunderstorm Wind (G55)
<b>Middlesex County</b>									
Holliston	06	2058EST			0	0			Thunderstorm Wind (G60)
<b>Norfolk County</b>									
Weymouth	06	2130EST			0	0			Thunderstorm Wind (G70)
<b>Plymouth County</b>									
Hingham to Abington	06	2145EST			0	0			Thunderstorm Wind (G60)

Severe thunderstorms swept across Massachusetts in advance of a strong cold front. For the fourth day in a row, temperatures soared well up into the 90s across the Bay State, along with high humidity. The thunderstorms arrived in two lines: one from mid-afternoon into early evening with winds clocked as high as 82 mph, and the second during the late evening with winds estimated over 80 mph and large hail. Damage was widespread from the east slopes of the Berkshires to the North and South Shore communities around Boston. In the wake of the storms, tens of thousands of electric customers were left without power, and in some communities, it took several days for power to be restored.

In Hampshire County, a 29-year old man was killed and two men were injured when a large tree branch fell on their car on Route 5 in Hatfield while returning home from a fishing trip. Wind gusts as high as 65 mph were reported in North Hatfield as the storms passed. There were countless reports of downed trees, wires, and telephone poles throughout western and central Massachusetts, where the most widespread damage occurred during mid to late afternoon.

In eastern Massachusetts, the storms caused the most damage during the late afternoon and early evening when there were many reports of downed trees, tree limbs, and power lines. In Middlesex County, wind gusts were estimated to be over 70 mph. Several five to ten ton air conditioning units were blown off the roof of a building in Ashland, and part of the roof was torn off. Large hail was reported throughout much of Norfolk and Plymouth Counties early in the evening. Hailstones as large as baseballs fell in Brockton, covering Milton Street and damaging cars. In Chatham, on Cape Cod, a 13-year old boy was lowering the sail on his small fiberglass sailboat on the shore of Oyster Pond when thunderstorm winds blew him and the boat about 200 yards into the middle of the pond. The boy was not injured. Later in the evening, the second round of severe thunderstorms caused more sporadic wind damage to trees and power lines. The worst damage occurred in Weymouth, when a microburst caused extensive wind damage near Whitmans Pond. A storm survey conducted the next day by the National Weather Service concluded wind speeds reached around 80 mph, which downed large trees, power lines, damaged homes, and made some roads impassable from fallen debris. Damage was also noted farther south into Abington and Hanson.

MAZ015

<b>Suffolk</b>									
14	0000EST				0	0			Record Cold
	0800EST								

The low temperature at Logan International Airport of 55 degrees tied the record low for the date which was set in 1937.



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July 1999

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### MASSACHUSETTS, Central and East

MAZ016	Eastern Norfolk							
	16	1355EST			0	0		Record Warmth
	The high temperature of 94 degrees at the Blue Hill Observatory in Milton tied the record high for the date, which was set in 1983 and earlier years.							
MAZ015>016	Suffolk - Eastern Norfolk							
	17	1329EST 1350EST			0	0		Record Warmth
	The high temperature at Logan International Airport in Boston of 98 degrees tied the record high for the date which was set in 1977. At the Blue Hill Observatory in Milton, the high temperature of 95 degrees tied the record high for the date, which was set in 1997							
MAZ016	Eastern Norfolk							
	18	1403EST			0	0		Record Warmth
	The high temperature at the Blue Hill Observatory in Milton of 96 degrees tied the record high for the date, which was set in 1991							
Franklin County								
Bernardston	18	1550EST			0	0		Thunderstorm Wind (G55)
	An isolated severe thunderstorm downed trees in Bernardston.							
Middlesex County								
Billerica	23	0010EST			0	0		Thunderstorm Wind (G50)
Plymouth County								
Plymouth	23	1545EST			0	0		Hail(0.75)
Bristol County								
Taunton	23	1630EST			0	0		Thunderstorm Wind (G50)
	An early morning severe thunderstorm in northeast Massachusetts downed large tree limbs in Billerica, near Concord Road and Treble Cove Road. Later that day, severe thunderstorms moved across southeast Massachusetts, bringing damaging winds and large hail. Dime size hail was reported in Plymouth, near the town line with Carver, and two trees were downed by thunderstorm winds in Taunton.							
Essex County								
Haverhill to Newburyport	24	1546EST 1618EST			0	0		Hail(1.50)
Worcester County								
Worcester	24	1600EST			0	0		Lightning
Worcester County								
Northborough	24	1611EST			0	0		Hail(0.75)
Worcester County								
Northborough to Shrewsbury	24	1615EST			0	0		Thunderstorm Wind (G50)
Middlesex County								
Littleton to Acton	24	1617EST 1636EST			0	0		Hail(1.00)
Middlesex County								
Shirley to Wakefield	24	1636EST 1710EST			0	0		Thunderstorm Wind (G50)
Essex County								
Rowley to Peabody	24	1700EST 1707EST			0	0		Hail(1.00)
Middlesex County								
Wakefield	24	1705EST			0	0		Hail(0.75)
Essex County								
Andover to Peabody	24	1710EST 1735EST			0	0		Thunderstorm Wind (G75)



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### MASSACHUSETTS, Central and East

<b>Hampden County</b>									
Chicopee	24	1745EST			0	0			Hail(0.75)
<b>Worcester County</b>									
Barre	24	1745EST			0	0			Thunderstorm Wind (G50)
<b>Essex County</b>									
Amesbury to Groveland	24	1913EST 1925EST			0	0			Thunderstorm Wind (G52)
<b>Norfolk County</b>									
Dedham	24	2005EST			0	0			Thunderstorm Wind (G50)
<b>Suffolk County</b>									
(Bos)Logan Intl Arpt	24	2045EST			0	0			Thunderstorm Wind (G64)
<b>Norfolk County</b>									
Wrentham	24	2220EST			0	0			Thunderstorm Wind (G50)

Severe thunderstorms brought damaging winds and large hail to much of central and eastern Massachusetts. The hardest hit areas were in Boston's North and South Shore communities, where there were countless reports of downed trees and power lines, and hail as large as ping pong balls. In Essex County north of Boston, a microburst with wind speeds estimated between 80 and 100 mph caused extensive damage in Middleton and Peabody. Many large trees were totally uprooted, large pine trees were snapped off above the ground, and shingles were blown off two houses. The strongest winds occurred in Middleton, in the area of Lake Street between Wills Hill Reservoir and Middleton Pond. Another severe thunderstorm produced a wind gust to 74 mph at Logan International Airport in Boston. During the height of the storms, thousands of people were estimated to have lost power throughout the Bay State.

<b>Middlesex County</b>									
Sudbury to Newton	25	1235EST 1325EST			0	0			Hail(1.00)
<b>Middlesex County</b>									
Wayland	25	1301EST			0	0			Thunderstorm Wind (G50)
<b>Worcester County</b>									
Harvard	25	1315EST			0	0			Hail(0.75)
<b>Suffolk County</b>									
Brighton	25	1333EST			0	0			Hail(0.75)
<b>Suffolk County</b>									
(Bos)Logan Intl Arpt	25	1348EST			0	0			Thunderstorm Wind (G50)
<b>Middlesex County</b>									
Bedford to Waltham	25	1400EST			0	0			Lightning
<b>Plymouth County</b>									
Brockton	25	1400EST 1500EST			0	0			Heavy Rain
<b>Plymouth County</b>									
Brockton to Hanson	25	1425EST			0	0			Hail(1.25)
<b>Plymouth County</b>									
East Bridgewater	25	1430EST			0	0			Thunderstorm Wind (G50)
<b>Norfolk County</b>									
Stoughton	25	1505EST			0	0			Hail(0.75)
<b>Essex County</b>									
Haverhill to West Newbury	25	1518EST			0	0			Thunderstorm Wind (G50)



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### MASSACHUSETTS, Central and East

#### Norfolk County

Walpole	25	1545EST			0	0			Thunderstorm Wind (G50)
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#### Plymouth County

Abington	25	1555EST			0	0			Thunderstorm Wind (G50)
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Severe thunderstorms brought damaging winds and large hail to central and eastern Massachusetts for the second day in a row. The hardest hit areas were once again in the suburbs of Boston, especially to the south, where there were many reports of downed trees and power lines. Hail as large as quarters covered the ground in spots. Brockton, in Plymouth County, was especially hard hit. Large hail the size of ping pong balls damaged cars, and torrential rainfall of two inches in one hour resulted in street flooding. A storm spotter reported two to three feet of water on Main and Belmont streets. Several house fires were started by lightning in Middlesex County. In Boston, water flooded the mezzanine level of South Station, closing the MBTA Red Line Station for about an hour. Service was also interrupted on the MBTA Green Line for about an hour, after a tree fell near Brookline Hills station. Logan International Airport recorded a wind gust to 58 mph in a thunderstorm, a day after measuring a wind gust to 74 mph. An estimated 25,000 customers in central and eastern Massachusetts were left without power.

#### Barnstable County

Mashpee to Sandwich	26	0600EST 0730EST			0	0			Lightning
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#### Worcester County

Spencer	26	1225EST			0	0			Thunderstorm Wind (G50)
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#### Worcester County

Spencer	26	1345EST			0	0			Lightning
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#### Worcester County

Clinton	26	1800EST 1900EST			0	0			Lightning
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An isolated severe thunderstorm in Spencer downed trees on Northwest Road. Lightning strikes from other thunderstorms caused extensive damage in Worcester County and on Cape Cod. Early in the day, the thunderstorm that had earlier dropped quarter size hail in Rhode Island weakened, but lightning ignited several house fires in Sandwich and Mashpee, and knocked out power to about 10,000 customers on the Cape. In Worcester County, afternoon and evening thunderstorms with frequent lightning ignited an apartment building fire in Spencer, and a house fire in Clinton.

#### Worcester County

Spencer	29	1850EST			0	0			Thunderstorm Wind (G50)
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#### Franklin County

Ashfield	29	2145EST			0	0			Thunderstorm Wind (G50)
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#### Franklin County

Rowe	29	2200EST			0	0			Thunderstorm Wind (G50)
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#### Franklin County

Hawley	29	2221EST			0	0			Thunderstorm Wind (G50)
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Severe thunderstorms produced wind damage in Franklin and Worcester Counties. Large tree branches and wires were downed in Spencer, Ashfield, Rowe, and Hawley.

#### Worcester County

Leominster to Fitchburg	30	1528EST 1543EST			0	0			Lightning
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#### Hampden County

Palmer	30	1847EST 1901EST			0	0			Hail(0.75)
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An isolated severe thunderstorm produced dime size hail in Palmer. Earlier that day, lightning strikes from non-severe



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### MASSACHUSETTS, Central and East

thunderstorms in Leominster and Fitchburg were responsible for starting two house fires and at least one brush fire. Lightning also caused damage to chimneys and roofs of several other homes.

### NEW HAMPSHIRE, Southern

#### **Hillsborough County**

**Nashua**

**02 1441EST 0 0 Lightning**

Lightning struck the Boston Air Route Traffic Control Center in Nashua, briefly knocking out the primary radar and radio communications systems. Controllers were forced to rely on a backup system for nearly three hours, which caused widespread delays during the holiday weekend. During that time, all jet aircraft were restricted from taking off at airports throughout New England, including Logan International Airport in Boston. The effects of the outage and slower backup system idled planes throughout the country that were headed for destinations in New England. Flights inbound from Europe were rerouted around the affected airspace.

#### **Cheshire County**

**Gilsum to  
Winchester**

**06 1507EST 0 0 Thunderstorm Wind (G60)**  
**1545EST**

#### **Hillsborough County**

**Amherst to  
Nashua**

**06 1545EST 1 0 Thunderstorm Wind (G71)**  
**1611EST**

M61PH

Severe thunderstorms moved across southern New Hampshire in advance of a strong cold front, resulting in widespread wind damage in Cheshire and Hillsborough Counties. For the fourth day in a row, temperatures peaked well up into the 90s along with high humidity. In Cheshire County, the storms downed trees and wires in Gilsum, Jaffrey, and Winchester. Trees and wires were also downed throughout much of Hillsborough County, including Mason, Nashua, Hudson, and Pelham. A Skywarn spotter in Amherst measured a wind gust to 82 mph as the storms moved through. About 6,600 customers in both counties lost power.

#### **Hillsborough County**

**Manchester**

**24 1520EST 0 0 Hail(1.00)**

A severe thunderstorm ahead of a cold front produced quarter size hail in Manchester.

#### **Hillsborough County**

**Goffstown**

**25 1340EST 0 0 Hail(0.75)**

A severe thunderstorm produced dime size hail in Goffstown.

#### **Cheshire County**

**Jaffrey**

**27 1915EST 0 0 Thunderstorm Wind (G50)**

An isolated severe thunderstorm near Thorndike Pond downed trees and wires, including one tree onto a car

#### **Hillsborough County**

**Mt Vernon**

**30 1630EST 0 0 Hail(1.00)**

An isolated severe thunderstorm produced quarter size hail in Mont Vernon, and over 2 inches of rain

### RHODE ISLAND

#### **Newport County**

**Tiverton**

**04 0800EST 0 0 Lightning**

Thunderstorms with frequent lightning moving across Rhode Island started a house fire in Tiverton





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					Killed	Injured					

### RHODE ISLAND

**RIZ004**

**Eastern Kent**

**05 0000EST  
1800EST**

**0 0**

**Record Heat**

Bermuda high pressure brought a southwest flow of hot and humid air to Rhode Island during the holiday weekend. The high temperature of 98 degrees at T.F. Green State Airport in West Warwick tied the record high for July 5th which was first set in 1919. Also, the temperature only fell to a low of 78 degrees on the 5th, which set a record high minimum temperature for the date. The previous record was 77 degrees which was also set in 1919.

**RIZ004**

**Eastern Kent**

**06 0600EST  
1800EST**

**0 0**

**Record Heat**

For the second day in a row, temperatures at T.F. Green State Airport in West Warwick tied the record high for the date. The high of 97 degrees equaled the record high for July 6th, which was set in 1911.

**RIZ004**

**Eastern Kent**

**14 0000EST  
0800EST**

**0 0**

**Record Cold**

The low temperature at T.F. Green State Airport dropped to 53 degrees, which tied the record low for the date which was set in 1937.

**RIZ004**

**Eastern Kent**

**17 1350EST**

**0 0**

**Record Warmth**

The high temperature at T.F. Green State Airport of 97 degrees tied the record high for the date, which was set in 1977.

**RIZ004**

**Eastern Kent**

**18 1423EST**

**0 0**

**Record Warmth**

The high temperature at T.F. Green State Airport of 98 degrees tied the record high for the date, which was set in 1982.

**Providence County**

**Cumberland to  
Lincoln**

**19 1640EST**

**0 0**

**Thunderstorm Wind (G50)**

Severe thunderstorms moved across northern Rhode Island, after causing extensive wind damage in northern Connecticut. Thunderstorm winds downed five-inch diameter trees in Cumberland, blocking a roadway, and also downed power lines in Lincoln.

**Kent County**

**Coventry to  
West Greenwich**

**23 1900EST  
1910EST**

**0 0**

**Thunderstorm Wind (G50)**

An isolated severe thunderstorm, which caused extensive damage in Windham County Connecticut, weakened somewhat as it entered Rhode Island, but still produced damage in Kent County. Trees and wires were downed on Susan Bowen Road and Fish Hill Road in Coventry, while in neighboring West Greenwich, trees, large branches, and wires were downed by thunderstorm winds.

**Kent County**

**West Greenwich**

**25 1315EST**

**0 0**

**Hail(1.00)**

**Kent County**

**Warwick**

**25 1350EST**

**0 0**

**Hail(1.00)**

**Bristol County**

**Barrington**

**25 1405EST**

**0 0**

**Thunderstorm Wind (G50)**

Severe thunderstorms brought damaging winds and large hail to Rhode Island. Hail as large as quarters fell in West Greenwich and Warwick, while thunderstorm winds downed large branches in Barrington.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### RHODE ISLAND

#### Newport County

##### Tiverton

26

0630EST

0

0

Hail(1.00)

An isolated early morning severe thunderstorm dropped quarter size hail in Tiverton. The large hail dented several cars, and broke holes into greenhouse roofs.